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national institute of neurological and communicative disorders and stroke

Research Grants

ORIGINAL

Training Awards

Fellowship Awards

fy 1982 *summary tables*

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

RESEARCH GRANTS
TRAINING AWARDS
FY 1982
SUMMARY TABLES

MANAGEMENT INFORMATION AND DATA SECTION
NINCDS OFFICE OF PLANNING AND ANALYSIS

I

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FOREWORD

This Fiscal Year Summary Table book contains data on all research and training grant and award programs paid in FY 1982 by disorder or scientific field and by program area. We have also included tables which are arranged by state or country and by type.

Kenneth Lee Vickers
Chief, Management Information and Data Section
NINCDS Office of Planning and Analysis

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

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Explanatory Notes

TYPE. The type of grant is identified by the DRG standard numerical code:

Type 1 - new
Type 2 - competing renewal
Type 3 - supplement
Type 5 - non-competing continuation
Type 7 - change of grantee institution
Type 9 - change of awarding institute

MECHANISM.

F32 - Individual National Research Service Award
F33 - National Research Service Award for Senior Fellows
K04 - Research Career Development Award
K06 - Research Career Award
K07 - Teacher-Investigator Award
P01 - Research Program Project
P50 - Clinical Research Center
R01 - Regular Research Project
R13 - Conference Grant
R23 - New Investigator Research Award
T32 - Institutional National Research Service Award
T35 - Short Term Research Training Grant

CLASSIFICATION CODE. The 9-character code identifying the disorder, scientific discipline and major program area involved in research grants. See pp. vii-x.

DSF. The 3-digit code used to identify the discipline/specialty/field involved in training or fellowship awards. See p. xi.

REPORTING NUMBER AND DOLLARS FOR AWARDS FOR A FISCAL YEAR. The following are the DRG definitions for counting numbers and dollars for grants.

Research Grants. The number of grants for a fiscal year is determined by counting the number of awards for a given fiscal year. However, supplemental awards are not counted as a separate grant when they have a matching parent grant awarded from the same fiscal year. The dollars for all awards for that fiscal year's funds are included.

Training and Fellowship Awards. The number of grants for a fiscal year is determined by counting the number of awards for a given fiscal year. Supply allowances and supplemental awards are not counted. The dollars for all awards for that fiscal year's funds are included.

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CLASSIFICATION CODES

A nine-character code is used to classify research grants, e.g. 1A1-C1-ND. The first three characters identify the disorder under study, the fifth and sixth characters show the scientific discipline involved and the final two letters indicate to which of the four Institute program areas a grant has been assigned.

DISORDER CLASSIFICATION

1. Neurological Disorders

   A. Neurological Disorders of Early Life

      1. Cerebral Palsy — Perinatal Injuries
      2. Mental Retardation
      3. Toxic Metabolic and Deficiency Disorders — Wilson's Disease, perinatal nutrition, erythroblastosis fetalis, Tay-Sachs Disease and other lipid storage diseases, kernicterus, phenylketonuria (PKU)
      4. Early Development — Down's Syndrome, myeloceles, spina bifida, congenital anomalies, brain and nerve growth, hydrocephaly
      5. Other Disorders of Early Life not specified above, e.g., Reye's Syndrome

   B. Neurological Disorders of Aging

      1. Parkinsonism
      2. Huntington's Disease
      3. Senile and Presenile Dementia (Alzheimer's Disease)
      4. Other Studies Relating to Aging not specified above (e.g., Kuf's Disease)

   C. Cerebrovascular Disorders, Stroke, CV Functions, blood-brain barrier

      1. Aneurysms
      2. Hemorrhage
      3. Thrombosis and Embolism
      4. Diagnostic Procedures Related to Stroke
      5. Headache, including migraine

   D. Convulsive and Related Paroxysmal Disorders

      1. Epilepsy — seizures, convulsions, convulsive and anti-convulsive drugs
      2. Other Paroxysmal Disorders — narcolepsy, febrile seizures

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1. Neurological Disorders - Continued

E. Demyelinating or Sclerosing Disorders — lipoproteins, basic myelin studies

1. Multiple Sclerosis
2. Amyotrophic Lateral Sclerosis
3. Allergic Encephalitis or Allergic Neuritis
4. Neuron degeneration other than above

F. Muscular and Neuromuscular Disorders and functions — muscle innervation

1. Muscular Dystrophy
2. Myasthenia Gravis
3. Peripheral Neuropathy — Guillain-Barre Syndrome, diabetic neuropathy, alcoholic neuropathy
4. Other Neuromuscular Disorders not specified above, e.g., Charcot-Marie-Tooth Disease

G. Infectious Diseases

1. Encephalitis or Encephalomyelitis
2. "Slow" viruses — SSPE, Jakob-Creutzfeldt Syndrome, kuru, scrapie, visna
3. Post-Infectious Neuritides
4. Meningitis
5. Parasitic Infections

H. Trauma and Injury

1. Brain Injury — hemiplegia
2. Spinal Cord Injury — paraplegia
3. Peripheral Nerve Injury
4. Regeneration and Plasticity
5. Radiation Damage — X-rays, ultrasound, lasers, ultraviolet
6. Biomechanics, Ruptured Intervertebral Disc, Manipulative Therapy
7. Diagnostic Procedures Related to Trauma
8. Shock or Coma

J. Tumors of Nervous System

1. Brain Tumors
2. Spinal and Peripheral Nerve Tumors
3. Diagnostic Procedures
4. Intracranial Pressure — brain edema, CSF

K. Disorders due to Exogenous or Endogenous Neurotoxicants

M. Neuroendocrine Studies — autonomic nervous system, including control of body temperature, micturition, respiration, blood pressure, circadian rhythms and other cyclical behavior

N. Neural Aspects of Learning and Behavior

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1. Neurological Disorders - Continued

P. Nervous System Studies related to Normal Function

1. Anatomy
2. Physiology
3. Pharmacology

Q. Positron Emission Tomography (PET)

2. Sensory Disorders

B. Disorders of Hearing and Equilibrium -- communication studies applicable to hearing

1. Hearing Disorders
2. Auditory System Structure and Function
3. Equilibrium -- Meniere's Disease

C. Disorders of Speech and Other Higher Central Nervous System Functions

1. Speech Production and Disorders
2. Language Disorders; Aphasia, Delay
3. Oro-pharyngeal structure; ENT Surgery
4. Speech Perception

D. Disorders of Other Senses

1. Taste -- taste buds, thirst, tongue, oral receptors
2. Smell -- olfactory nerve, chemosensory studies
3. Touch -- skin receptors, sweat glands
4. Pain (including anesthesia) -- hypothermia, Bell's Palsy, facial nerve, Tic Douloureux
5. Sensory Studies (multi-), including proprioception
6. Neurological Mechanisms of Vision -- cortical projection, perception, dyslexia

3. Multicategorical

4. Neural Prostheses

A. Bladder
B. Auditory
C. Visual
D. Muscle
E. Epilepsy
F. Other, not specified above

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SCIENTIFIC CLASSIFICATION

A. Neuroanatomical Sciences

1. Neuroanatomy and comparative neurology
2. Neurocytology and histology
3. Embryology, development and regeneration
4. Neuropathology
5. Pathology of sense organs

B. Neurophysiological and Neurophysical Sciences

1. Neurophysiology
2. Neuromuscular physiology
3. Biophysics, including electrophysiology
4. Physiology of specific senses

C. Biochemical Sciences

1. Basic biochemistry, synthesis (except drugs) and methods
2. Enzymology
3. Metabolism and nutrition
4. Pharmacology and experimental therapeutics; drug synthesis
5. Endocrinology

D. Biological Sciences

1. Immunology
2. Microbiology
3. Genetics
4. Epidemiology

E. Clinical Investigations; actual or related by significance

1. Clinical neurology
2. Clinical otorhinolaryngology
3. Rehabilitation
4. Clinical neurosurgery
5. Human communication
6. Diagnostic techniques--radiology, CT, EMI
7. Other clinical studies not specified above

F. Psycho-Neurological Relationships

1. Psychology, behavioral, psychosensory studies, subjective experimentation, psychological testing

G. Biomedical Engineering

1. Materials
2. Instrumentation
3. Electrodes

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DISCIPLINE/SPECIALTY/FIELD (DSF Code)

All training grants and fellowship awards are classified by this code which identifies the major area of training involved.

014	Neuroanatomy	272	Neuroradiology
020	Biochemistry	281	Neurosurgery
029	Neurochemistry	290	Otolaryngology
039	Biophysics	294	Audiology
042	Neuroimmunology	330	Neurology
048	Neurovirology	331	Developmental Neurology
053	Neuropathology	339	Cerebrovascular-Stroke
065	Neuropharmacology	360	Clinical Investigations
070	Chemical Senses	432	Biomedical Engineering
072	Neurophysiology	470	Epidemiology
079	Sensory Physiology	708	Communicative Disorders (incl. multidisciplinary programs)
110	Genetics	720	Physiological Psychology
155	CNS Regeneration	735	Speech Perception
189	Neurobiology	774	Speech Pathology
190	Neurological Sciences, Multidisciplinary	835	Language and Linguistics
192	Neuroendocrinology		

MAJOR PROGRAM AREAS

CD - Communicative Disorders
FN - Fundamental Neurosciences
ND - Neurological Disorders
ST - Stroke and Nervous System Trauma

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE I — All Research Grants Awarded (R01, R13, R23, P01, P50) by Disorder, FY 1981 and 1982

(Dollars in Thousands)

Disorder Classification	All Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1. Neurological Disorders - Multi.**	1	$ 49	2	$ 272
Total - 1	1	49	2	272
1A. Disorders of Early Life	-	-	-	-
1A1. Cerebral Palsy	6	526	7	555
1A2. Mental Retardation	1	157	-	-
1A3. Toxic Metabolic/Deficiency Disorders	61	6,083	48	5,415
1A4. Early Development	122	10,709	127	12,149
1A5. Disorders of Early Life other than above	6	499	10	1,368
Total - 1A	196	17,974	192	19,487
1B. Disorders of Aging	9	580	5	279
1B1. Parkinsonism	23	2,878	21	2,943
1B2. Huntington's Disease	11	2,198	11	1,994
1B3. Senile/Presenile Dementia	13	1,630	22	1,996
1B4. Disorders of Aging other than above	3	228	4	269
Total - 1B	59	7,514	63	7,481
1C. Cerebrovascular Disorders	46	11,838	47	12,426
1C1. Aneurysms	1	215	1	220
1C2. Hemorrhage	2	222	4	370
1C3. Thrombosis and Embolism	-	-	2	560
1C4. Diagnostic Procedures	3	353	4	460
1C5. Headache	5	421	6	518
Total - 1C	57	13,049	64	14,554
1D. Convulsive and Related Paroxysmal Disorders	1	519	1	350
1D1. Epilepsy	63	8,071	54	8,655
1D2. Other Paroxysmal Disorders	8	548	7	481
Total - 1D	72	9,138	62	9,486

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TABLE I (cont'd.)

Disorder Classification	All Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1E. Demyelinating/Sclerosing Disorders	24	$ 2,120	26	$ 2,414
1E1. Multiple Sclerosis	30	8,386	30	8,746
1E2. Amyotrophic Lateral Sclerosis	8	707	8	811
1E3. Allergic Encephalitis/Neuritis	9	860	15	1,298
1E4. Neuron Degeneration other than above	4	311	3	177
Total - 1E	75	12,384	82	13,446
1F. Muscular/Neuromuscular Disorders	79	6,983	79	6,961
1F1. Muscular Dystrophy	22	2,966	20	1,983
1F2. Myasthenia Gravis	10	975	13	1,342
1F3. Peripheral Neuropathy	7	1,095	13	1,599
1F4. Neuromuscular Disorders other than above	3	177	2	100
Total - 1F	121	12,196	127	11,985
1G. Infectious Diseases	2	556	1	561
1G1. Encephalitis or Encephalomyelitis	3	231	4	277
1G2. "Slow" viruses	16	1,430	14	1,514
1G3. Post-Infectious Neuritides	3	247	3	231
1G4. Meningitis	1	67	1	54
1G5. Parasitic Infections	1	71	1	65
Total - 1G	26	2,602	24	2,702
1H. Trauma and Injury	1	383	2	386
1H1. Brain Injury	11	3,275	11	2,764
1H2. Spinal Cord Injury	18	3,088	17	2,896
1H3. Peripheral Nerve Injury	1	263	1	259
1H4. Regeneration and Plasticity	68	6,982	69	7,358
1H5. Radiation Damage	3	127	3	125
1H6. Biomechanics, Manipulative Therapy	4	483	2	263
1H7. Diagnostic Procedures	-	-	-	-
1H8. Shock or Coma	4	596	3	354
Total - 1H	110	15,197	108	14,405
1J. Tumors of Nervous System	8	537	6	461
1J1. Brain Tumors	4	289	2	102
1J2. Spinal/Peripheral Nerve Tumor	2	137	2	137
1J3. Diagnostic Procedures	1	93	1	89
1J4. Intracranial Pressure	2	218	3	215
Total - 1J	17	1,374	14	1,004

TABLE I (cont'd.)

Disorder Classification	All Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1K. Disorders due to Exogenous or Endogenous Neurotoxicants	1	$ 63	9	$ 723
Total - 1K	1	63	9	723
1M. Neuroendocrine Studies	122	8,953	125	9,834
Total - 1M	122	8,953	125	9,834
1N. Neural Aspects of Learning and Behavior	38	3,017	41	3,340
Total - 1N	38	3,017	41	3,340
1P. Nervous System Studies related to Normal Function	1	65	1	59
1P1. Anatomy	39	3,004	38	3,053
1P2. Physiology	175	14,431	180	15,734
1P3. Pharmacology	49	3,875	40	3,309
Total - 1P	264	21,375	259	22,155
1Q. Positron Emission Tomography	8	6,330	8	6,797
Total - 1Q	8	6,330	8	6,797
Neurological Disorders, Total	1,167	131,215	1,180	137,671
2. Sensory Disorders	-	-	-	-
2B. Disorders of Hearing and Equilibrium	10	2,507	13	3,497
2B1. Hearing Disorders	49	10,490	45	8,470
2B2. Auditory System Structure and Function	62	5,584	83	8,208
2B3. Equilibrium	12	1,045	13	1,147
Total - 2B	133	19,626	154	21,322
2C. Disorders of Speech	1	691	1	319
2C1. Speech Production and Disorders	20	2,483	23	2,775
2C2. Language Disorders	25	2,099	26	2,336
2C3. Oro-pharyngeal structure	1	136	3	229
2C4. Speech Perception	6	420	7	482
Total - 2C	53	5,829	60	6,141
2D. Disorders of Other Senses	1	30	1	41
2D1. Taste	17	1,164	16	1,040
2D2. Smell	21	2,870	22	3,438

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TABLE I (cont'd.)

Disorder Classification	All Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
2D3. Touch	14	$ 1,177	13	$ 1,265
2D4. Pain	25	2,190	30	2,620
2D5. Sensory Studies (multi.)	47	3,545	45	3,855
2D6. Neurological Mechanisms of Vision	12	875	8	589
Total - 2D	137	11,851	135	12,848
Sensory Disorders, Total	323	37,306	349	40,311
3. Multicategorical**	5	1,414	5	1,479
Total - 3	5	1,414	5	1,479
4. Neural Prostheses	-	-	-	-
4A. Bladder	1	45	-	-
4B. Auditory	4	730	4	1,007
4C. Visual	2	154	2	158
4D. Muscle	1	63	1	65
4E. Epilepsy	-	-	-	-
4F. Other than above	2	165	4	266
Total - 4	10	1,157	11	1,496
Grand Total*	1,505	$171,092*	1,545	$180,960*

N.B. The support shown for each disorder is for research in which the classification used refers to the major disorder. Where no support is shown, some research on the disorder may be coded in another area.

*Dollars may not add to total due to rounding.

**Includes grants which may involve more than one of the specific disorder categories listed.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE II -- Research Grants Awarded (R01, R23, R13) by Disorder, FY 1981 and 1982

(Dollars in Thousands)

Disorder Classification	Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1. Neurological Disorders - Multi.**	-	$ -	-	$ -
Total - 1	-	-	-	-
1A. Disorders of Early Life	-	-	-	-
1A1. Cerebral Palsy	6	526	7	555
1A2. Mental Retardation	1	157	-	-
1A3. Toxic Metabolic/Deficiency Disorders	60	5,337	47	4,707
1A4. Early Development	120	9,708	125	11,176
1A5. Disorders of Early Life other than above	6	499	9	788
Total - 1A	193	16,227	188	17,226
1B. Disorders of Aging	9	580	5	279
1B1. Parkinsonism	20	1,419	18	1,410
1B2. Huntington's Disease	9	596	9	622
1B3. Senile/Presenile Dementia	13	1,630	22	1,996
1B4. Disorders of Aging other than above	3	228	4	269
Total - 1B	54	4,453	58	4,576
1C. Cerebrovascular Disorders	34	3,645	36	4,062
1C1. Aneurysms	1	215	1	220
1C2. Hemorrhage	2	222	4	370
1C3. Thrombosis and Embolism	-	-	1	161
1C4. Diagnostic Procedures	3	353	4	460
1C5. Headache	5	421	6	518
Total - 1C..	45	4,855	52	5,791
1D. Convulsive and Related Paroxysmal Disorders	-	-	-	-
1D1. Epilepsy	56	3,668	45	3,603
1D2. Other Paroxysmal Disorders	8	548	7	481
Total - 1D	64	4,216	52	4,084

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TABLE II (cont'd.)

Disorder Classification	Research Grants			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1E. Demyelinating/Sclerosing Disorders	24	2,120	26	$ 2,414
1E1. Multiple Sclerosis	23	2,698	23	2,872
1E2. Amyotrophic Lateral Sclerosis	6	573	7	486
1E3. Allergic Encephalitis/Neuritis	9	860	15	1,298
1E4. Neuron Degeneration other than above	4	311	3	177
Total - 1E	68	6,562	74	7,247
1F. Muscular/Neuromuscular Disorders	78	6,592	78	6,552
1F1. Muscular Dystrophy	20	1,379	18	1,442
1F2. Myasthenia Gravis	10	975	13	1,342
1F3. Peripheral Neuropathy	7	895	12	952
1F4. Neuromuscular Disorders other than above	3	177	2	100
Total - 1F	118	10,018	123	10,388
1G. Infectious Diseases	1	$ 64	1	-
1G1. Encephalitis or Encephalomyelitis	3	231	4	277
1G2. "Slow" viruses	16	1,430	13	1,188
1G3. Post-Infectious Neuritides	3	247	3	231
1G4. Meningitis	1	67	1	54
1G5. Parasitic Infections	1	71	1	65
Total - 1G	25	2,110	22	1,815
1H. Trauma and Injury	-	-	1	6
1H1. Brain Injury	6	432	6	459
1H2. Spinal Cord Injury	13	1,012	12	950
1H3. Peripheral Nerve Injury	1	263	1	259
1H4. Regeneration and Plasticity	64	5,189	65	5,680
1H5. Radiation Damage	3	127	3	125
1H6. Biomechanics, Manipulative Therapy	4	483	2	263
1H7. Diagnostic Procedures	-	-	-	-
1H8. Shock or Coma	4	596	3	354
Total - 1H	95	8,102	93	8,096
1J. Tumors of Nervous System	8	637	6	461
1J1. Brain Tumors	4	289	2	102
1J2. Spinal/Peripheral Nerve Tumor	2	137	2	137
1J3. Diagnostic Procedures	1	93	1	89
1J4. Intracranial Pressure	2	218	3	215
Total - 1J	17	1,374	14	1,004

TABLE II (cont'd.)

Disorder Classification	Research Grants FY 1981 No.	FY 1981 Dollars*	FY 1982 No.	FY 1982 Dollars*
1K. Disorders due to Exogenous or Endogenous Neurotoxicants	1	63	9	$ 723
Total - 1K	1	63	9	723
1M. Neuroendocrine Studies	121	8,762	125	9,834
Total - 1M	121	8,762	125	9,834
1N. Neural Aspects of Hearing and Behavior	38	3,017	40	3,067
Total - 1N	38	3,017	40	3,067
1P. Nervous System Studies related to Normal Function	1	65	1	59
1P1. Anatomy	38	2,673	37	2,828
1P2. Physiology	171	13,000	175	14,109
1P3. Pharmacology	49	3,875	40	3,309
Total - 1P	259	19,613	253	20,305
1Q. Positron Emission Tomography	1	220	1	263
Total - 1Q	1	220	1	263
Neurological Disorders, Total	1,099	89,592	1,104	94,419
2. Sensory Disorders	-	-	-	-
2B. Disorders of Hearing and Equilibrium	7	724	9	935
2B1. Hearing Disorders	41	3,967	38	3,424
2B2. Auditory System Structure and Function	61	5,080	81	6,733
2B3. Equilibrium	12	1,045	13	1,147
Total - 2B	121	10,816	141	12,239
2C. Disorders of Speech	-	-	-	-
2C1. Speech Production and Disorders	18	1,511	21	1,943
2C2. Language Disorders	24	1,730	25	1,960
2C3. Oro-pharyngeal structure	1	136	3	229
2C4. Speech Perception	6	420	7	482
Total - 2C	49	3,797	56	4,614
2D. Disorders of Other Senses	1	$ 30	1	$ 41
2D1. Taste	17	1,164	16	1,040
2D2. Smell	19	1,608	19	1,645

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TABLE II (cont'd.)

Disorder Classification	Research Grants FY 1981 No.	FY 1981 Dollars*	FY 1982 No.	FY 1982 Dollars*
2D3. Touch	14	1,177	13	$ 1,265
2D4. Pain	24	1,819	29	2,248
2D5. Sensory Studies (multi.)	46	3,215	44	3,461
2D6. Neurological Mechanisms of Vision	12	875	8	589
Total - 2D	133	9,888	130	10,289
Sensory Disorders, Total	303	24,501	327	27,142
3. Multicategorical**	-	-	-	-
Total - 3	-	-	-	-
4. Neural Prostheses	-	-	-	-
4A. Bladder	1	45	-	-
4B. Auditory	3	358	3	546
4C. Visual	2	154	2	158
4D. Muscle	1	63	1	64
4E. Epilepsy	-	-	-	-
4F. Other than above	2	165	4	266
Total - 4	9	785	10	1,034
Grand Total*	1,411	$114,877*	1,441	$122,595*

N.B. The support shown for each disorder is for research in which the classification used refers to the major disorder. Where no support is shown, some research on the disorder may be coded in another area.

*Dollars may not add to total due to rounding.

**Includes grants which may involve more than one of the specific disorder categories listed.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE III -- Program Projects and Clinical Research Centers (P01 and P50)
Awarded by Disorder, FY 1981 and 1982

(Dollars in Thousands)

Disorder Classification	Program Projects and Clinical Centers			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
1. Neurological Disorders - Multi.**	1	$ 49	2	$ 272
Total - 1	1	49	2	272
1A. Disorders of Early Life	-	-	-	-
1A1 . Cerebral Palsy	-	-	-	-
1A2. Mental Retardation	-	-	-	-
1A3. Toxic Metabolic/Deficiency Disorders	1	746	1	708
1A4. Early Development	2	1,001	2	973
1A5. Disorders of Early Life other than above	-	-	1	581
Total - 1A	3	1,747	4	2,262
1B. Disorders of Aging	-	-	-	-
1B1. Parkinsonism	3	1,459	3	1,533
1B2. Huntington's Disease	2	1,602	2	1,372
1B3. Senile/Presenile Dementia	-	-	-	-
1B4. Disorders of Aging other than above	-	-	-	-
Total - 1B	5	3,061	5	2,905
1C. Cerebrovascular Disorders	12	8,194	11	8,364
1C1. Aneurysms	-	-	-	-
1C2. Hemorrhage	-	-	-	-
1C3. Thrombosis and Embolism	-	-	1	399
1C4. Diagnostic Procedures	-	-	-	-
1C5. Headache	-	-	-	-
Total - 1C	12	8,194	12	8,763
1D. Convulsive and Related Paroxysmal Disorders	1	519	1	350
1D1. Epilepsy	7	4,403	9	5,052
1D2. Other Paroxysmal Disorders	-	-	-	-
Total - 1D	8	4,922	10	5,402

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TABLE III (cont'd.)

Disorder Classification	Program Projects and Clinical Centers FY 1981 No.	FY 1981 Dollars*	FY 1982 No.	FY 1982 Dollars*
1E. Demyelinating/Sclerosing Disorders	-	-	-	-
1E1. Multiple Sclerosis	7	5,688	7	5,875
1E2. Amyotrophic Lateral Sclerosis	-	134	1	325
1E3. Allergic Encephalitis/Neuritis	-	-	-	-
1E4. Neuron Degeneration other than above	-	-	-	-
Total - 1E	7	5,822	8	6,200
1F. Muscular/Neuromuscular Disorders	1	391	1	409
1F1. Muscular Dystrophy	2	1,587	2	541
1F2. Myasthenia Gravis	-	-	-	-
1F3. Peripheral Neuropathy	-	200	1	646
1F4. Neuromuscular Disorders other than above	-	-	-	-
Total - 1F	3	2,178	4	1,596
1G. Infectious Diseases	1	$ 492	1	$ 561
1G1. Encephalitis or Encephalomyelitis	-	-	-	-
1G2. "Slow" viruses	-	-	-	326
1G3. Post-Infectious Neuritides	-	-	-	-
1G4. Meningitis	-	-	-	-
1G5. Parasitic Infections	-	-	-	-
Total - 1G	1	492	2	887
1H. Trauma and Injury	1	383	1	380
1H1. Brain Injury	5	2,843	5	2,305
1H2. Spinal Cord Injury	5	2,076	5	1,946
1H3. Peripheral Nerve Injury	-	-	-	-
1H4. Regeneration and Plasticity	4	1,793	4	1,678
1H5. Radiation Damage	-	-	-	-
1H6. Biomechanics, Manipulative Therapy	-	-	-	-
1H7. Diagnostic Procedures	-	-	-	-
1H8. Shock or Coma	-	-	-	-
Total - 1H	15	7,095	15	6,309
1J. Tumors of Nervous System	-	-	-	-
1J1. Brain Tumors	-	-	-	-
1J2. Spinal/Peripheral Nerve Tumor	-	-	-	-
1J3. Diagnostic Procedures	-	-	-	-
1J4. Intracranial Pressure	-	-	-	-
Total - 1J	-	-	-	-

TABLE III (cont'd.)

Disorder Classification	Program Projects and Clinical Centers FY 1981 No.	FY 1981 Dollars*	FY 1982 No.	FY 1982 Dollars*
1K. Disorders due to Exogenous or Endogenous Neurotoxicants	-	-	-	-
Total - 1K	-	-	-	-
1M. Neuroendocrine Studies	1	191	-	-
Total - 1M	1	191	-	-
1N. Neural Aspects of Learning and Behavior	-	-	1	272
Total - 1N	-	-	1	272
1P. Nervous System Studies related to Normal Futions	-	-	-	-
1P1. Anatomy	1	331	1	225
1P2. Physiology	4	1,431	5	1,625
1P3. Pharmacology	-	-	-	-
Total - 1P	5	1,762	6	1,850
1Q. Positron Emission Tomography	7	6,110	7	6,535
Total - 1Q	7	6,110	7	6,535
Neurological Disorders, Total	68	41,623	76	43,253
2. Sensory Disorders	-	-	-	-
2B. Disorders of Hearing and Equilibrium	3	1,783	4	2,562
2B1. Hearing Disorders	8	6,523	7	5,046
2B2. Auditory System Structure and Function	1	504	2	1,475
2B3. Equilibrium	-	-	-	-
Total - 2B	12	8,810	13	9,083
2C. Disorders of Speech	1	691	1	319
2C1. Speech Production and Disorders	2	972	2	833
2C2. Language Disorders	1	369	1	376
2C3. Oro-pharyngeal structure	-	-	-	-
2C4. Speech Perception	-	-	-	-
Total - 2C	4	2,032	4	1,528
2D. Disorders of Other Senses	-	$ -	-	$ -
2D1. Taste	-	-	-	-
2D2. Smell	2	1,262	3	1,793

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TABLE III (cont'd.)

Disorder Classification	Program Projects and Clinical Centers			
	FY 1981		FY 1982	
	No.	Dollars*	No.	Dollars*
2D3. Touch	-	-	-	-
2D4. Pain	1	371	1	372
2D5. Sensory Studies (multi.)	1	330	1	394
2D6. Neurological Mechanisms of Vision	-	-	-	-
Total - 2D	4	1,963	5	2,559
Sensory Disorders, Total	20	12,805	22	13,170
3. Multicategorical**	5	1,414	5	1,479
Total - 3	5	1,414	5	1,479
4. Neural Prostheses	-	-	-	-
4A. Bladder	-	-	-	-
4B. Auditory	1	372	1	461
4C. Visual	-	-	-	-
4D. Muscle	-	-	-	-
4E. Epilepsy	-	-	-	-
4F. Other than above	-	-	-	-
Total - 4	1	372	1	461
Grand Total*	94	$ 56,216*	104	$ 58,363*

N.B. The support shown for each disorder is for research in which the classification used refers to the major disorder. Where no support is shown, some research on the disorder may be coded in another area.

*Dollars may not add to total due to rounding.

**Includes grants which may involve more than one of the specific disorder categories listed.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE
Summary Table IV - All Grants and Awards by Program Area
and Mechanism, FY 1982

(Dollars in Thousands)

Mechanism	Mechanism Code	Program Area									
		Total		CD		FN		ND		ST	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Individual NRSA	F32	216	$ 3,671,821	34	$ 591,945	122	$2,034,123	37	$ 650,865	23	$ 394,888
NRSA for Senior Fellows	F33	3	88,319	1	21,500	2	63,473	-	3,646	-	-
Research Career Develop. Award	K04	74	2,798,634	16	576,274	25	973,499	23	860,295	10	388,566
Research Career Award	K06	5	133,209	1	5,355	-	-	3	95,832	1	32,022
Teacher-Investigator Award	K07	106	4,469,199	19	792,791	-	-	64	2,689,665	23	986,743
Res. Prog. Proj.	P01	72	36,524,006	13	8,222,675	12	3,747,985	23	10,639,144	24	13,914,202
Clin. Res. Ctr.	P50	32	21,839,257	8	4,643,039	-	-	12	8,884,445	12	8,311,773
Regular Res. Proj.	R01	1,379	120,000,585	246	21,666,823	397	31,958,545	570	50,285,179	166	16,090,038
Conference Grant	R13	12	214,423	2	30,000	2	12,470	4	111,592	4	60,361
New Investigator Research Award	R23	50	2,381,737	9	422,263	10	494,802	24	1,139,263	7	325,409
Institutional NRSA	T32	62	4,050,437	12	702,251	20	1,410,404	24	1,600,411	6	337,371
Short Term Res. Training Grant	T35	6	260,161	-	-	6	260,161	-	-	-	-
Total		2,017	$196,431,788	361	$37,674,916	596	$40,955,162	784	$76,960,337	276	$40,841,373

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE V — Research Projects Awarded by Program Area and Type, FY 1982

(Dollars in Thousands)

Type	PROGRAM AREA									
	CD		EN		ND		ST		Total	
	R01's	P01's and P50's	R01's	P01's and P50's	R01's	P01's and P50's	R01's	P01's and P50's	R01's	P01's and P50's
NUMBER										
1	36	2	63	2	95	4	28	1	222	9
2	46	1	75	2	62	8	30	8	213	19
3	12	3	7	-	16	5	3	8	38	16
5	153	18	247	8	392	21	103	25	895	72
7	6	-	9	-	11	-	3	-	29	-
9	-	-	-	-	1	-	-	-	1	-
Tot.	253	24	401	12	577	38	167	42	1,398	116
DOLLARS*										
1	$ 2,620	$ 820	$ 5,199	$ 452	$ 8,341	$ 1,429	$ 2,533	$ 399	$ 18,693	$ 3,100
2	5,392	524	7,264	444	6,257	4,416	3,998	6,645	22,911	12,029
3	370	147	184	-	469	767	86	1,007	1,109	1,921
5	12,891	11,375	18,728	2,852	34,302	12,911	9,293	14,174	75,214	41,312
7	394	-	584	-	736	-	181	-	1,895	-
9	-	-	-	-	181	-	-	-	181	-
Tot.	$21,667*	$12,866*	$31,959*	$3,748*	$50,285*	$19,524*	$16,090*	$22,226*	$120,001*	$58,363*

*Dollars may not add to total due to rounding.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE VI — Young, New and Special Investigator Awards (R23's) and Conference Grants (R13's) by Program Area, FY 1982

(Dollars in Thousands)

Program Area	R23's		R13's	
	No.	Dollars*	No.	Dollars*
Communicative Disorders	9	$ 422	2	$ 30
Fundamental Neurosciences	10	495	2	12
Neurological Disorders	24	1,139	4	112
Stroke and Trauma	7	325	4	60
Total	50	$2,382	12	$ 214

*Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE VII — Institutional National Research Service Awards (T32) by Program Area and Training Area, FY 1982

(Dollars in Thousands)

Training Area	CD		FN		ND		ST		Total	
	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**
Clinical Investigations	-	$ -	-	$ -	3	$ 161	2	$134	5	$ 295
Communicative Disorders, Multi.	3	117	-	-	-	-	-	-	3	117
CNS Regeneration	-	-	-	-	-	-	3	111	3	111
Developmental Neurology	-	-	-	-	4	313	-	-	4	313
Epidemiology	-	-	-	-	2	130	-	-	2	130
Language and Linguistics	1	37	-	-	-	-	-	-	1	37
Neuroanatomy	-	-	2	138	-	-	-	-	2	138
Neurobiology	-	-	11	873	2	112	-	-	13	985
Neuroimmunology	-	-	-	-	1	123	-	-	1	123
Neurological Sciences, Multi.	-	-	4	294	-	-	1	93	5	387
Neurology	-	-	-	-	2	125	-	-	2	125
Neuropathology	-	-	-	-	5	335	-	-	5	335
Neuropharmacology	-	-	1	28	-	-	-	-	1	28
Neurophysiology	-	-	2	77	-	-	-	-	2	77
Neurovirology	-	-	-	-	5	302	-	-	5	302
Otolaryngology	1	66	-	-	-	-	-	-	1	66
Sensory Physiology	6	428	-	-	-	-	-	-	6	428
Speech Perception	1	54	-	-	-	-	-	-	1	54
Total	12	$702**	20	$1,410**	24	$1,600**	6	$337**	62	$4.050**

*Numbers of awards are for regular awards only and do not include supplemental awards.
**Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE VIII -- Short Term Research Training Grants (T35's) by Program Area* and Training Area, FY 1982

(Dollars in Thousands)

Training Area	Total	
	No.	Dollars**
Neurobiology	1	$ 96
Neurosciences, Multi.	5	164
Total	6	$ 260

*Fundamental Neurosciences Program only.
**Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE IX — Individual National Research Service Awards (F32) by Scientific Field and Program Area, FY 1982

(Dollars in Thousands)

Scientific Field	Total		CD		FX		MD		ST	
	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**
Audiology	4	$ 70	4	$ 70	-	$ -	-	$ -	-	$ -
Biochemistry	8	145	-	-	8	145	-	-	-	-
Biophysics	6	103	-	-	5	85	1	18	-	-
Cerebrovascular-Stroke	2	36	-	-	-	-	-	-	2	36
Chemical Senses	1	18	1	18	-	-	-	-	-	-
Clinical Investigations	1	18	-	-	-	-	1	18	-	-
CNS Regeneration	12	202	-	-	-	-	-	-	12	202
Communicative Disorders	2	33	1	17	1	16	-	-	-	-
Developmental Neurology	11	198	-	-	1	18	9	161	1	20
Genetics	4	68	-	-	3	51	1	17	-	-
Language Languistics	2	36	2	36	-	-	-	-	-	-
Neuroanatomy	18	312	5	89	9	154	3	52	1	18
Neurobiology	43	714	-	-	32	524	7	120	4	70
Neurochemistry	13	228	-	-	12	210	1	18	-	-
Neuroendocrinology	11	185	-	-	9	150	2	35	-	-
Neuroimmunology	5	86	-	-	4	70	1	16	-	-
Neurology	6	112	-	-	-	-	6	112	-	-
Neuropathology	1	13	-	-	-	-	1	13	-	-
Neuropharmacology	11	177	-	-	8	124	3	53	-	-
Neurophysiology	23	378	-	-	22	360	-	1	1	18
Neurovirology	1	17	-	-	-	-	1	17	-	-
Physiological Psychology	5	82	2	34	2	34	-	-	1	13
Sensory Physiology	21	349	14	237	6	94	-	-	1	18
Speech Pathology	4	75	4	75	-	-	-	-	-	-
Speech Perception	1	17	1	17	-	-	-	-	-	-
Total	216	$3,672**	34	$ 592**	122	$2,034**	37	$ 651**	23	$ 395**

*Numbers of awards are for regular awards only and do not include supplemental awards.
**Dollars may not add to total due to rounding.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE X -- National Research Service Awards for Senior Fellows (F33)
by Scientific Field and Program Area, FY 1982

(Dollars in Thousands)

Scientific Field	Total		CD		FN		ND		ST	
	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*
Communicative Disorders	1	$ 22	1	$22	-	$ -	-	$ -	-	$ -
Neurobiology	-	4	-	-	-	-	-	4	-	-
Neurophysiology	1	33	-	-	1	33	-	-	-	-
Physiological Psychology	1	30	-	-	1	30	-	-	-	-
Total	3	$ 88	1	$22	2	$ 63	-	$ 4	-	$ -

*Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE XI — Research Career Development Awards (K04) by Scientific Field and Program Area
FY 1982

(Dollars in Thousands)

Scientific Field	Total		CD		FN		ND		ST	
	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**
Audiology	3	$ 82	3	$ 82	-	$ -	-	$ -	-	$ -
Biochemistry	5	194	-	-	4	157	1	37	-	-
Biophysics	1	41	-	-	1	41	-	-	-	-
CNS Regeneration	2	77	-	-	-	-	-	-	2	77
Developmental Neurology	5	194	-	-	-	-	4	154	1	40
Neuroanatomy	5	200	-	-	1	42	2	80	2	78
Neurobiology	9	334	2	76	5	183	1	36	1	39
Neurochemistry	7	275	-	-	4	157	1	40	2	78
Neuroendocrinology	5	192	-	-	4	156	1	36	-	-
Neuropathology	3	112	-	-	-	-	3	112	-	-
Neuropharmacology	3	105	-	-	-	-	3	105	-	-
Neurophysiology	11	421	-	-	5	199	6	222	-	-
Neurosurgery	1	38	-	-	-	-	-	-	1	38
Neurovirology	1	39	-	-	-	-	1	39	-	-
Otolaryngology	1	39	1	39	-	-	-	-	-	-
Physiological Psychology	1	37	1	37	-	-	-	-	-	-
Sensory Physiology	5	196	5	196	-	-	-	-	-	-
Speech Pathology	1	33	1	33	-	-	-	-	-	-
Speech Perception	3	114	3	114	-	-	-	-	-	-
Biomedical Engineering	1	39	-	-	-	-	-	-	1	39
Genetics	1	39	-	-	1	39	-	-	-	-
Total	74	$2,799**	16	$ 576**	25	$ 973**	23	$ 860**	10	$ 389**

*Numbers of awards are for regular awards only and do not include supplemental awards.
**Dollars may not add to total due to rounding.

NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE XII -- Research Career Awards (K06) by Scientific Field and Program Area, FY 1982
(Dollars in Thousands)

Scientific Field	Total		CD		FN		ND		ST	
	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*
Otolaryngology	1	$ 5	1	$ 5	-	-	-	-	-	-
Neuropharmacology	2	63	-	-	-	-	2	63	-	-
Physiological Psychology	1	33	-	-	-	-	1	33	-	-
Cerebrovascular - Stroke	1	32	-	-	-	-	-	-	1	32
Total	5	$133	1	$ 5	-	-	3	96	1	32

*Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE XIII -- Teacher-Investigator Awards (K07) by Scientific Field and Program Area, FY 1982

(Dollars in Thousands)

Scientific Field	Total		CD		FN		ND		ST	
	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**	No.*	Dollars**
Biophysics	1	$ 45	-	$ -	-	$ -	1	$ 45	-	$ -
Cerebrovascular-Stroke	9	387	-	-	-	-	-	-	9	387
Clinical Investigations	3	122	-	-	-	-	2	75	1	47
Communicative Disorders	1	44	1	44	-	-	-	-	-	-
Developmental Neurology	7	274	-	-	-	-	7	274	-	-
Neuroanatomy	3	129	-	-	-	-	3	129	-	-
Neurobiology	1	43	-	-	-	-	1	43	-	-
Neurochemistry	5	202	-	-	-	-	5	202	-	-
Neuroendocrinology	8	343	-	-	-	-	7	299	1	44
Neuroimmunology	4	172	-	-	-	-	3	128	1	44
Neurology	16	690	-	-	-	-	15	647	1	43
Neuropathology	6	262	-	-	-	-	3	133	3	129
Neuropharmacology	6	242	1	43	-	-	5	199	-	-
Neurophysiology	7	299	-	-	-	-	4	170	3	129
Neurosurgery	4	164	-	-	-	-	-	-	4	164
Neurovirology	7	303	-	-	-	-	7	303	-	-
Otolaryngology	8	331	8	331	-	-	-	-	-	-
Physiological Psychology	1	43	-	-	-	-	1	43	-	-
Sensory Physiology	1	43	1	43	-	-	-	-	-	-
Speech Pathology	7	291	7	291	-	-	-	-	-	-
Speech Perception	1	40	1	40	-	-	-	-	-	-
Total	106	$4,469**	19	$ 792**	-	$ -	64	$2,690**	23	$ 987**

*Numbers of awards are for regular awards only and do not include supplemental awards.
**Dollars may not add to total due to rounding.

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NATIONAL INSTITUTE OF NEUROLOGICAL AND COMMUNICATIVE DISORDERS AND STROKE

SUMMARY TABLE XIV -- Research, Training and Fellowship Awards by State or Country, FY 1982

(Dollars in Thousands)

State or Country	Total		Research Grants (R01, R23, R13, P01, P50)		Training Awards T-32's/T-35's		Training Awards F-32's/F-33's		Teacher-Investigator Awards		Research Career Program (K04's only)	
	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*
Alabama	13	$ 1,737	12	$ 1,691	-	-	-	-	1	$ 46	-	$ -
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	14	801	11	726	-	-	2	34	1	41	-	-
Arkansas	5	232	4	194	-	-	-	-	-	-	1	38
California	305	27,150	217	24,830	10	509	58	950	14	616	6	245
Colorado	27	2,462	23	2,336	1	30	1	18	-	-	2	77
Connecticut	85	9,476	69	9,011	3	151	9	155	1	38	3	121
Delaware	1	56	1	56	-	-	-	-	-	-	-	-
District of Columbia	12	757	10	678	-	-	-	-	-	-	2	79
Florida	33	3,570	30	3,406	1	83	-	-	1	42	1	39
Georgia	17	1,227	16	1,198	1	29	-	-	-	-	-	-
Hawaii	3	145	2	127	-	-	1	18	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	82	6,864	62	6,102	5	349	8	141	4	163	3	109
Indiana	29	1,755	24	1,612	1	37	1	18	-	-	3	88
Iowa	26	1,980	21	1,822	-	-	2	37	1	43	2	78
Kansas	18	1,241	17	1,203	-	-	-	-	-	-	1	38
Kentucky	6	266	3	167	-	-	-	-	2	61	1	38
Louisiana	15	1,361	13	1,305	1	38	1	18	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	99	9,023	72	8,067	2	112	7	93	12	516	6	235
Massachusetts	164	19,418	121	17,751	10	674	17	317	13	561	3	115
Michigan	58	6,174	47	5,794	1	34	3	53	5	217	2	76

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TABLE XIV (cont'd.)

State or Country	Total		Research Grants (R01, R23, R13, P01, P50)		Training Awards T-32's/T-35's		Training Awards F-32's/F-33's		Teacher-Investigator Awards		Research Career Program (K04's only)	
	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*
Minnesota	38	5,739	33	5,564	-	35	2	20	1	44	2	76
Mississippi	2	62	2	62	-	-	-	-	-	-	-	-
Missouri	66	7,445	48	6,682	4	338	6	105	7	282	1	38
Montana	1	46	1	46	-	-	-	-	-	-	-	-
Nebraska	7	405	5	348	1	39	1	18	-	-	-	-
Nevada	2	90	2	90	-	-	-	-	-	-	-	-
New Hampshire	5	359	4	342	-	-	1	17	-	-	-	-
New Jersey	18	1,343	17	1,325	-	-	1	18	-	-	-	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
New York	317	31,747	241	29,259	11	806	42	739	13	564	10	379
North Carolina	69	6,377	50	5,765	1	93	9	162	4	170	5	187
North Dakota	2	104	2	104	-	-	-	-	-	-	-	-
Ohio	49	4,075	41	3,692	2	161	-	-	3	112	3	110
Oklahoma	8	480	8	480	-	-	-	-	-	-	-	-
Oregon	25	1,972	18	1,841	-	-	7	131	-	-	-	-
Pennsylvania	97	15,601	80	14,960	3	191	5	89	5	222	4	139
Puerto Rico	1	83	1	83	-	-	-	-	-	-	-	-
Rhode Island	7	353	6	335	-	-	1	18	-	-	-	-
South Carolina	6	765	6	765	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee	9	722	8	680	-	-	-	-	1	42	-	-
Texas	91	7,546	72	6,858	3	200	6	102	5	194	5	192
Utah	21	1,722	15	1,531	2	69	2	36	1	45	1	41
Vermont	4	255	3	210	-	-	-	-	1	45	-	-
Virginia	40	2,884	29	2,483	1	70	3	51	4	168	3	112
Washington	43	4,731	27	4,152	3	184	5	85	6	239	2	71
West Virginia	2	143	1	125	-	-	1	18	-	-	-	-
Wisconsin	32	3,241	26	3,033	1	77	3	53	-	-	2	78
Wyoming	3	149	3	149	-	-	-	-	-	-	-	-
Total, United States	1,977	194,134	1,524	179,040	68	4,311	205	3,514	106	4,471	74	2,799

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TABLE XIV (cont'd.)

State or Country	Total		Research Grants (R01, R23, R13, P01, P50)		Training Awards T-32's/T-35's		Training Awards F-32's/F-33's		Teacher-Investigator Awards		Research Career Program (K04's only)	
	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*	No.	Dollars*
Australia	-	1	-	-	-	-	-	1	-	-	-	-
Canada	9	1,330	6	1,283	-	-	3	47	-	-	-	-
France	1	18	-	-	-	-	1	18	-	-	-	-
German, Federal Republic	1	16	-	-	-	-	1	16	-	-	-	-
Israel	9	393	8	379	-	-	1	14	-	-	-	-
Italy	1	15	1	15	-	-	-	-	-	-	-	-
Japan	1	14	-	-	-	-	1	14	-	-	-	-
Mexico	1	54	1	54	-	-	-	-	-	-	-	-
New Zealand	1	58	1	58	-	-	-	-	-	-	-	-
Norway	-	1	-	-	-	-	-	1	-	-	-	-
Sweden	3	113	2	95	-	-	1	18	-	-	-	-
Switzerland	-	4	-	-	-	-	-	4	-	-	-	-
United Kingdom	8	152	2	37	-	-	6	115	-	-	-	-
Total Foreign	35	2,169	21	1,921	-	-	14	248	-	-	-	-
Grand Total	2,012	$196,303*	1,545	$180,960*	68	$4,311*	219	$3,762*	106	$4,469*	74	$2,799*

*Dollars may not add to total due to rounding.

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